

Application Number **10/615,336**
Amendment dated **10 January 2005**
Reply to Office Action of **8 December 2004**

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1-9 (canceled).

Claim 10 (original): A liner for receiving a limb of an amputee comprising:
an inner layer and an outer layer;
the inner layer comprising at least one channel;
at least one sensor provided in the at least one channel used to monitor physiological characteristics of the limb; and
the outer layer configured to cover the inner layer.

Claim 11 (original): The liner of claim 10 wherein the channel is a pocket.

Claim 12 (original): The liner of claim 10 wherein the sensor is an oxygen sensor.

Claim 13 (original): The liner of claim 10 wherein the sensor is a pressure sensor.

Claim 14 (original): The liner of claim 10 wherein the sensor is a strip.

Claim 15 (original): The liner of claim 14, wherein the sensor wraps around a bottom of the inner layer.

Claims 16-17 (canceled).

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Claim 18 (previously presented): The socket liner of claim 24, wherein the sensor wraps around a bottom of the inner layer.

Claims 19–20 (canceled).

Claim 21 (previously presented): A socket liner for receiving a limb of an amputee, comprising:

- a liner adapted to receive a limb of an amputee; and
- an oxygen sensor provided in the liner, wherein the oxygen sensor is adapted to monitor data received therein.

Claim 22 (previously presented): A socket liner for receiving a limb of an amputee, comprising:

- a liner adapted to receive a limb of an amputee; and
- a plurality of sensors provided in the liner, wherein the plurality of sensors are adapted to monitor data received therein, and wherein the plurality of sensors include a pressure sensor and an oxygen sensor.

Claim 23 (previously presented): A socket liner for receiving a limb of an amputee, comprising:

- a liner adapted to receive a limb of an amputee; and
- a sensor provided in the liner, wherein the sensor is adapted to monitor data received therein, and wherein the sensor is wrapped around a bottom of an inner layer of the liner.

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Claim 24 (previously presented): A socket liner for receiving a limb of an amputee comprising:

- a liner having an inner and an outer layer, wherein the inner layer is configured to hold a physiological sensor, and the outer layer serves to provide an interface between the inner layer and a socket;

- a physiological sensor configured to receive data from a limb regarding its physiological characteristics;

- the sensor being in communication with a transmitter;

- the transmitter configured to send data to a receiver to allow an end user to analyze the physiological characteristics of the limb.